

HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SECTION

Field Site No. 3506-A **OAHP No.** **Date Recorded** 21 Oct 1994
Site Name Historic Telephone Exchange Building **Revised** 29 May 1998
Common Powerhouse Mechanical Maintenance Shop
Field Recorder K.A. Simmons, M.E. Crist, J.K. Keating
Owner's Name U.S. Department of Energy, Richland Operations Office
Address P.O. Box 550
City/State/Zip Code Richland, WA 99352

State of Washington, Department of Community Development
Office of Archaeology and Historic Preservation
111 21st Avenue Southwest, Post Office Box 48343
Olympia, Washington 98504-8343 (206)753-4011

Status

- ☒ Survey/Inventory
☐ National Register
☐ State Register
☐ Determined Eligible
☐ Determined Not Eligible
☐ Other (HABS, HAER, NHL)
☐ Local Designation

Photography

Hanford Photo Lab:
Neg#94010583-3cn
Photography Neg. No. HCRL: Roll 181, frames 7-11
(Roll No. & Frame No.)
View of N, E, & S exterior facades
Date 1994

Photo at right; Neg#94010583-3cn
view of north facade

Classification

District Status ☐ District ☐ Site ☒ Building ☐ Structure ☐ Object
☒ NR ☐ SR ☐ LR ☐ INV
Contributing ☒ **Non-Contributing** ☐
District/Thematic Nomination Name Hanford Site Manhattan Project and Cold War Era Historic District

Description Section

Materials & Features/Structural Types

Building Type Industry/Telecommunications
Plan L-shaped
Structural System Steel frame
No. of Stories One

Roof Type

☐ Gable ☐ Hip
☒ Flat ☐ Pyramidal
☐ Monitor ☐ Other (specify)
☐ Gambrel
☐ Shed

Cladding (Exterior Wall Surfaces)

- ☐ Log
☐ Horizontal Wood Siding
Rustic/Drop ☐
Clapboard ☐
☐ Wood Shingle
☐ Board and Batten
☐ Vertical Board
☐ Asbestos/Asphalt
☐ Brick
☐ Stone
☐ Stucco
☐ Terra Cotta
☒ Concrete/Concrete Block
☐ Vinyl/Aluminum Siding
☐ Metal (specify)
☐ Other (specify)

Roof Material

☐ Wood Shingle
☐ Wood Shake
☐ Composition
☐ Slate
☒ Tar/Built-up
☐ Tile
☐ Metal (specify)
☐ Other (specify)
☐ Not visible

Foundation

☐ Log ☐ Concrete
☐ Post & Pier ☐ Block
☐ Stone ☒ Poured
☐ Brick ☐ Other (specify)
☐ Not visible

Integrity

(Include detailed description in
Description of Physical Appearance)

	Intact	Slight	Moderate	Extensive
Changes to plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Changes to windows	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changes to original cladding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changes to interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

LOCATION SECTION

Address Building 3506-A, 300 Area
City/Town/County/Zip Code Richland/Benton County/99352
Twp 10 N **Range** 28 E **Section** 11 **1/4 Section** NW **1/4 1/4 Sec**
Tax No./Parcel No. **Acreage**
Quadrangle or map name Richland, Washington Quad. - 7.5 min series 1992
UTM References Zone 11 **Easting** 324460 **Northing** 5137860
Plat/Block/Lot
Supplemental Map(s)



High Styles/Forms (Check one or more of the following)

- | | |
|---|---|
| <input type="checkbox"/> Greek Revival | <input type="checkbox"/> Spanish Colonial Revival/Mediterranean |
| <input type="checkbox"/> Gothic Revival | <input type="checkbox"/> Tudor Revival |
| <input type="checkbox"/> Italianate | <input type="checkbox"/> Craftsman/Arts & Crafts |
| <input type="checkbox"/> Second Empire | <input type="checkbox"/> Bungalow |
| <input type="checkbox"/> Romanesque Revival | <input type="checkbox"/> Prairie Style |
| <input type="checkbox"/> Stick Style | <input type="checkbox"/> Art Deco/Art Moderne |
| <input type="checkbox"/> Queen Anne | <input type="checkbox"/> Rustic Style |
| <input type="checkbox"/> Shingle Style | <input type="checkbox"/> International Style |
| <input type="checkbox"/> Colonial Revival | <input type="checkbox"/> Northwest Style |
| <input type="checkbox"/> Beaux Arts/Neoclassical | <input type="checkbox"/> Commercial Vernacular |
| <input type="checkbox"/> Chicago/Commercial Style | <input type="checkbox"/> Residential Vernacular (see below) |
| <input type="checkbox"/> American Foursquare | <input checked="" type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Mission Revival | Industrial Vernacular |

Vernacular House Types

- | | |
|---|---|
| <input type="checkbox"/> Gable Front | <input type="checkbox"/> Cross Gable |
| <input type="checkbox"/> Gable Front and Wing | <input type="checkbox"/> Pyramidal/Hipped |
| <input type="checkbox"/> Side Gable | <input type="checkbox"/> Other (specify) |

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

<input type="checkbox"/>	Agriculture
<input type="checkbox"/>	Architecture/Landscape Architecture
<input type="checkbox"/>	Arts
<input type="checkbox"/>	Commerce
<input checked="" type="checkbox"/>	Communications
<input type="checkbox"/>	Community Planning/Development

<input type="checkbox"/>	Conservation
<input type="checkbox"/>	Education
<input type="checkbox"/>	Entertainment/Recreation
<input type="checkbox"/>	Ethnic Heritage (specify) _____
<input type="checkbox"/>	Health/Medicine
<input type="checkbox"/>	Manufacturing/Industry
<input type="checkbox"/>	Military

<input type="checkbox"/>	Politics/Government/Law
<input type="checkbox"/>	Religion
<input type="checkbox"/>	Science & Engineering
<input type="checkbox"/>	Social Movements/Organizations
<input type="checkbox"/>	Transportation
<input checked="" type="checkbox"/>	Other (specify) <u>Manhattan Project and Cold War Eras</u>
<input checked="" type="checkbox"/>	Study Unit Sub-Theme(s) <u>Fuel Manufacture,</u> <u>Facilities Support (Craft)</u>

Statement of Significance

Date of Construction 1944 Architect/Engineer/Builder Manhattan Engineer District and duPont Company

☒ In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.

☒ In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

The 3506-A Building originally housed phone service equipment as part of the Hanford Engineer Works (HEW) telephone network installed in 1943-44. The Hanford Site network consisted of five types of systems and seven permanent manually-operated telephone exchanges. The Inter-area System had a main switchboard in the 702 Central Telephone Exchange Building which was connected to the patrol headquarters and supervisors office buildings in each area. The Intra-area System consisted of lines from each area's switchboard to individual buildings in that area. The Inter-Communication System provided individual building connections between several buildings within one area. The other two systems consisted of the Power Dispatcher System and the Railroad Dispatcher System. The 3506-A building contained dialing and other telephone equipment and an emergency supply of batteries. All of the original phone equipment has been removed from the building.

The 3506-A building's function changed at an unknown date in the 1960's or 70's and became the Powerhouse Mechanical Maintenance Shop. It still houses maintenance personnel and shop maintenance equipment to support the 384 Power House which supplies heating and humidification to 300 Area buildings.

This building was part of the Hanford Site telephone network providing necessary communication connections across the Hanford Site and within each process area. It is therefore the conclusion of the U.S. Department of Energy that Building 3506-A is eligible for inclusion in the National Register of Historic Places under Criterion A as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The eastern portion of the 3506-A Building (axis running north-south) was built in 1944 and is the original rectangular portion of the structure. During the 1960's or 70's, a western addition was built. The dimensions of the original building were 20 ft. east-west by 44 ft. north-south. The addition measures approximately 28 ft by 36 ft. The current dimensions of the L-shaped building, including the addition, are 48 ft. east-west by 44 ft. north-south (along the east wall) and 36 ft. (along the west wall). The short leg of the L-shaped plan (which is part of the original building structure) extends about 8 ft. to the south beyond the southern wall of the addition. The two portions of the building that are connected include the east wall of the addition and all but 8 feet of the west wall of the original building.

The original structure has built-up roofing over cast-in-place concrete and structural steel. The roof of the addition is also built-up, but it is over thin light-weight concrete and form board. The original section is constructed of concrete block, but it has a layer of poured concrete along the top of the wall. The north wall of the original building has no distinct features. The east wall of the original building contains a set of metal double doors and a six pane window situated toward the south end of the wall. Pairs of small, square, metal bolts or fixtures run symmetrically along the length of the wall above the height of the door. These may relate to the building's original function as a telecommunications center. The south wall of the original building contains more bolts lined in the upper portion of the wall and a rectangular section of cement blocks in the wall that look as if they were added when a door was taken out of this wall. The south and west walls of the addition have no distinct features. The north wall of the addition contains a single metal door that appears to be the main entrance.

As noted, all of the original equipment was removed from the interior of the building. However, the original asbestos floor tile remains, although it has chipped around the drain holes in the floor at the south end of the building. The interior of the building contains steel crossbeams in the ceiling, concrete block walls, shop maintenance equipment, a kitchen, a bathroom, an office at the south end, and additional space partitioned for work/office space.

Major Bibliographic References

See Continuation Sheet

Major Bibliographic References

Drawing: H-3-4366

AEC-GE Study Group. 1964. *Catalog of Hanford Buildings and Facilities, 300 Area* . GEH-26434. Richland, Washington.

Condition Assessment Survey, 3506 A Building. 1993. Westinghouse Hanford Company. Richland, Washington.

Gerber, M.S. 1993. *Manhattan Project Buildings and Facilities at the Hanford Site: A Construction History* . WHC-MR-0425. Westinghouse Hanford Company. Richland, Washington.

Gerber, M.S. 1993. *Multiple Missions: The 300 Area in Hanford Site History* . WHC-MR-0440. Westinghouse Hanford Company. Richland, Washington.

E.I. du Pont de Nemours Corporation. 1945. *Construction of Hanford Engineer Works: History of the Project* . HAN-10970. Wilmington, Delaware.

E.I. du Pont de Nemours and Company. 1945. *Design and Construction History of Hanford Engineer Works and Clinton Semi-Works* . IN-06263, Vol. I. Wilmington, Delaware.

300 Area Building Catalog. 1993. Westinghouse Hanford Company. Richland, Washington.